

L 18293-65 EWT(m)/EWP(w)/ENA(d) /EWP(t)/EWP(b) IJP(c)/ASD(f)-2 JD/JG

ACCESSION NR: AP4046743

S/0226/64/000/005/0047/0048

AUTHOR: Borisenko, V. A. 4

TITLE: Hardness of tungsten in prolonged tests B

SOURCE: Poroshkovaya metallurgiya, no. 5, 1964, 47-48

TOPIC T A G S: tungsten, tungsten hardness, tungsten hot hardness 14

ABSTRACT: Specimens of strain-hardened and annealed VRN-type tungsten were subjected to hardness tests at 20, 940, and 1310C under a static load applied for periods of from 10 sec to 1 hr. The maximum drop in hardness, i.e., the highest rate of deformation, was found to occur in the first 20--30 sec (see Fig. 1 of the Enclosure). In logarithmic coordinates, the time dependence of hardness is linear and follows the dependence established by V. P. Shishokin. Orig. art. has: 5 figures.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR(Institute of Material-Science Problems, AN UkrSSR)

Card 1/3

L 18293-65

ACCESSION NR: AP4046743

SUBMITTED: 24Dec63

ENCL: 01

SUB CODE: HM

NO REF SOV: 002

OTHER: 000

Cord 2/3

L 18293-65

ACCESSION NR:

AP4046743

ENCLOSURE: 01

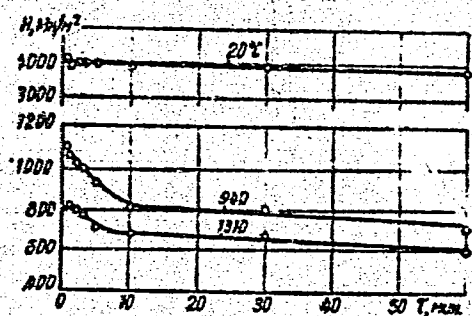


Fig. 1. Hardness of tungsten under loads maintained up to 1 hr

Card 3/3

L 23502-65 EWT(1)/EWT(m)/EWP(w)/EPF(c)/EPF(n)-2/EWA(d)/T/ENP(t)/ENP(b)
Pr-4/Pu-4 IJP(c) JD/WJ/JG

ACCESSION NR: AP5001594

S/0226/64/000/006/0079/0082

AUTHOR: Borisenko, V. A.

TITLE: Accuracy in determining hardness at elevated temperatures

SOURCE: Poroshkovaya metallurgiya, no. 6, 1964, 79-82

TOPIC TAGS: hardness, high temperature measurement, hardness determination, tungsten molybdenum

ABSTRACT: Using tungsten and molybdenum as examples, the author analyzes the accuracy of determining hardness at high temperatures mathematically, hardness being taken as a function of load applied, diameter of indentation, loading time, and the absolute temperature of the test. The test temperatures were 940, 1600, 2500, 2500, and 3000G. From the experimental data, the limiting relative errors of determining hardness were calculated. The calculations showed that these errors were reasonably small at high temperatures and that the errors were mostly affected by the error in measuring the temperature itself (2500-3000G). The accuracy in determining hardness markedly increased with an increased accuracy of measuring the temperature; e.g., if the accuracy in measuring the temperature of 3000G was

Card 1/2

L 23302-65

ACCESSION NR: AP5001594

increased by 6.5%, the limiting relative error in determining the hardness of tungsten at this temperature was decreased by 3%. Orig. art. has: 1 table and 10 formulas.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Materials science problems institute, AN UkrSSR)

SUBMITTED: 15Oct63

KECL: 00

SUB CODE: M

ED REF SOV: 005

OTHER: 000

Card 2/2

L 22998-66 EWT(d)/EWT(m)/EWP(w)/EPF(n)=2/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AT6008643 JD/JG/GS(A)

SOURCE CODE: UR/0000/65/000/000/0007/0013

AUTHORS: Pisarenko, G. S. (Academician AN UkrSSR) (Kiev); Kharchenko, V. K. (Kiev);
Dubin, V. P. (Kiev); Borisenko, V. A. (Kiev); Kashtalyan, Yu. A. (Kiev)

ORG: none

TITLE: Investigation of mechanical properties of high-melting materials at high temperatures in a vacuum and in an inert medium

SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy
prochnosti materialov i konstruktsionnykh elementov pri vysokikh i nizkikh
temperaturakh, 3d. Termoprochnost' materialov i konstruktsionnykh elementov (Thermal
strength of materials and construction elements); materialy soveshchaniya. Kiev,
Naukova dumka, 1965, 7-13

TOPIC TAGS: tungsten, niobium, elastic modulus, elastic stress, elastic deformation,
metallurgic testing machine/ UVT-1 metallurgic testing machine, UVT-2 metallurgic
testing machine

ABSTRACT: An experimental testing chamber for testing the mechanical properties of high-melting metals in a vacuum and in an inert medium at high temperatures has been developed (see Fig. 1). The temperature dependence of the modulus of elasticity, strength limit, and hardness limit of tungsten and molybdenum were determined. The experimental results are presented graphically (see Fig. 2). It was found that the strength and hardness limit obeyed the expressions of Frantsevich-Vrontskiy and

Card 1/3

L 22998-66

ACC NR: AT6008643

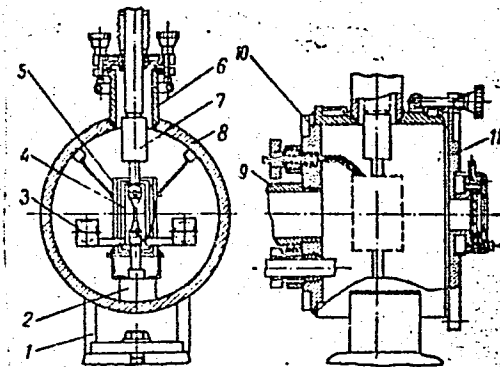


Fig. 1. Working chamber of the installation VTU-2V. 1 - foundation plate; 2 - clamps; 3 - current leads; 4 - specimen; 5 - heating installation; 6 - chamber top; 7 - hinged installation; 8 - body of chamber; 9 - exhaust nozzle; 10 - back cover; 11 - front cover.

Ito-Shishokin, shown as

$$\sigma_s = m_s \sigma_0 e^{-\beta_n T}, \quad H = k_n H_0 e^{-\alpha_n T},$$

where T is the temperature in degrees K, σ_0 and H_0 are the values of the strength and hardness limit at 0K, β_n and α_n are the temperature coefficients of the strength

Card 2/3

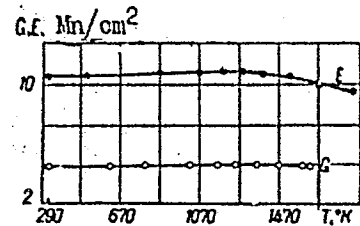


Fig. 2. Dependence of elasticity characteristics of niobium on the temperature. E and G - elastic modulus of the first and second kind respectively.

L 22998-66

ACC NR: AT6008643

and hardness limit, and m_n and k_n are constants. It is concluded that the maximum in the logarithmic decrement of oscillations in niobium at 570K, first observed by M. G. Losinskiy and A. Ye. Fedorovskiy, is related to the penetration of impurities into the niobium lattice. Orig. art. has: 8 graphs and 3 equations. 2

SUB CODE: 11/ SUBM DATE: 19Aug65/ ORIG REF: 010/ OTH REF: 001

Card 3/3 *plw*

L 33514-65 EWT(m)/EPF(n)-2/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) Pu-4 IJP(c) MJW/JD/J
 ACCESSION NR: AP5006192 S/0226/65/000/002/0057/0059

AUTHOR: Borisenko, V. A.

TITLE: On the relationship between strength and hardness in tungsten and molybdenum over a wide temperature range

SOURCE: Poroshkovaya metallurgiya, no. 2, 1965, 57-59

TOPIC TAGS: molybdenum, tungsten, metal hardness, yield strength, tensile strength, temperature dependence

ABSTRACT: The temperature curves for hardness and tensile strength in tungsten and molybdenum conform to an exponential law, and when they are plotted in semilogarithmic coordinates ($\ln H - T$ and $\ln \sigma_B - T$), they show three linear sections with characteristic high temperature and low temperature breaks. The relationship between hardness and tensile strength is given as:

$$\frac{\sigma_B}{H} = \frac{m_n \sigma_0}{k_n H_0} e^{(\alpha_n - \beta_n)T}$$

where H_0 and σ_0 are the hardness and tensile strength at 0°K; $\alpha_n (\alpha_1, \alpha_2, \alpha_3)$ and $\beta_n (\beta_1, \beta_2, \beta_3)$ are the temperature coefficients for the hardness and tensile strength

Card 1/2

L 33514-65

ACCESSION NR: AP5006192

in the respective sections; $k_n(k_1, k_2, k_3)$ and $m_n(m_1, m_2, m_3)$ are the constants for the respective sections. Grade VRN tungsten and grade MRN molybdenum were used as research materials. Curves are plotted for the relationships between hardness, tensile strength and yield of the metals in the cold-hardened state. The experimental data confirm the exponential behavior of the theoretical curves. Orig. art. has: 4 figures, 6 formulas.

ASSOCIATION: Institut problem materialovedeniya AN UkrSSR (Institute of Problems in the Science of Materials AN UkrSSR)

SUBMITTED: 15Aug63

ENCL: 00

SUB CODE: MM, AS

NO REF SOV: 002

OTHER: 000

Cord 2/2

L 23448-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(i) JD
ACC NR: AP6011249 SOURCE CODE: UR/0413/66/000/006/0092/0093

INVENTOR: Borisenko, V. A.

ORG: none

TITLE: Device for measuring the hot hardness of metal. Class 42, No. 179973
[announced by the Institute of Material Study, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 92-93

TOPIC TAGS: metal hardness, hot hardness, hardness test

ABSTRACT: This Author Certificate introduces a device for measuring the hot hardness of metals (in accordance with Author Certificate No. 161135). In order to measure the hardness in vacuum under a minimum load, the push bar of the indenter and the indenter rotating mechanism are placed in a vacuum-tight chamber. Orig. art. has: 1 figure. [ND]

SUB CODE: 13/ SUBM DATE: 19Apr65/ ATD PRESS 4232

Card 1/1

UDC: 620.178.152:620.178.154.5

66514

SOV/137-59-7-15693

18.1141

Translation from: Referativnyi zhurnal, Metallurgiya, 1959, Nr 7, p 215 (USSR)

AUTHORS: Dorisenko, V.G., and Kunakov, Ya.N.

TITLE: The Effect of the Grain Size on Magnetic Properties of Cold Rolled Transformer Steel

PERIODICAL: Tekhn.-ekon. byul. Sovnarkhoz Zaporozhsk. ekon. adm. r-na, 1958, Nr 7, pp 45 - 49

ABSTRACT: Investigations were carried out into the effect of the grain size on specific loss and magnetic induction of cold rolled textured transformer steel. It was stated that high magnetic properties of the steel could only be obtained by a homogenous coarse-grained structure. Decreased specific loss and higher magnetic induction occurred with an increase in the grain size up to 80 - 100 mm. Fine grained structure reduced magnetic induction by 10 - 20% and increased specific loss by 20-50%. Finegrained metal contained a higher amount of non-metallic impurities and O_2 .

T.F. 

Card 1/1

SOV/133-58-10-17/31

AUTHORS: Borisenko, V.G. and Barziy, V.K.

TITLE: A Decrease in the Thickness of Coating During Hot Tinning of Black Sheets (Umen'sheniye tolshchiny pokrytiya pri goryachem luzhenii zhesti)

PERIODICAL: Stal', 1958, Nr 10, pp 920 - 922 (USSR)

ABSTRACT: The influence of micro-relief of the surface of strip, small differences in the thickness of simultaneous coated strips, the temperature of tin and speed of strip on the thickness of tin coating was investigated. It was found that the micro-relief of the surface undergoing tinning has an influence on the thickness of coating. With deterioration of the state of the surface, the consumption of tin increases. With an improvement of the degree of cleanliness of the surface from the 7th to the 10th class (GOST 2789-51) the thickness of coating, under other conditions constant, decreases by 6-10%. When tinning simultaneously a few strips with a maximum permissible difference in their thickness (0.03-0.04 mm) and other conditions constant, the thickness of the coating on thinner strips increases approximately by 10%. Tinning at an increased temperature of the tin to 320-330 °C (instead of the usual temperatures of 280-300 °C) and

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SOV/133-58-10-17/31

A Decrease in the Thickness of Coating During Hot Tinning of Black Sheets

other conditions constant, permits decreasing the coating thickness by 8-9%. The advisability of the decrease in the tin consumption for coating by utilising higher temperature should be checked with regard to the overall tin consumption. With increasing velocity of passage of strip through the tinning bath, the thickness of coating increases. With velocity increasing from 2.2 to 4.45 m/min, the thickness of tin coating increases by 40%. There are 3 figures and 1 table.

ASSOCIATION: Zavod "Zaporozhstal'" ("Zaporozhstal' Works)

Card 2/2

AUTHOR: Borisenko, V.G., Head of the Physical Laboratory of the "Zaporozhstal'" Works SOV/32-24-9-49/53

TITLE: The Use of Ultrasound in the Detection of Defects at the "Zaporozhstal'" Works (Primepeniye ul'trazvukovoy defektoskopii na zavode "Zaporozhstal'")

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1162-1164 (USSR)

ABSTRACT: In the present paper some cases of ultrasound detection of defects in metal control are described. With respect to the ultrasonic control of slabs it is mentioned that at present the zone of defects caused by shrinkage are detected by means of the ultrasonic fault detector UZD-12. The surface of the slabs is pretreated prior to this determination. The defects of slabs caused by shrinkage look like laminations and are found by the occurrence of an additional impulse on the screen of the Braun tube. The diagram of a holder for the ultrasonic pickup for the control of rollers is given. It is mentioned, among other facts, that for the type of control described the fault detector UZD-7N with depth gauge as produced by the industry is suited. On the other hand the use of the portable fault detector UZD-NIIM-3, devised by the Leningradskiy nauchno-issledovatel'skiy institut mostov (Leningrad Scien-

Card 1/2

The Use of Ultrasound in the Detection of Defects
at the "Zaporozhstal'" Works

SOV/32-24-9-49/53

tific Research Institute for Bridges), makes a complete control of the welding seams of cast steel-buckets possible. It is mentioned that the field of application of ultrasound can be considerably enlarged; it is, for instance, possible to use it at the "Zaporozhstal'" works for the control of the continuous production of thin steel sheets with respect to the formation of laminations. There are 4 figures.

ASSOCIATION: Zavod "Zaporozhstal'" (Zaporozhstal' Works)

Card 2/2

S/112/59/000/016/053/054
A052/A002

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 16, p. 247,
35363

AUTHOR: Borisenko, V. G.

TITLE: Application of Ultrasonic Flaw Detection 14

PERIODICAL: Tekhn.-ekonom. byul. Sovnarkhoz Zaporozhsk. ekon. adm. r-na, 1958,
No. 3, pp. 14-15

TEXT: The experience made at the "Zapropzhstal" plant in the application of ultrasound for determining the position, size and shape of the shrinkage defect zones in slabs is described. This makes it possible in a number of cases to avoid cutting out and investigating the templets. Ultrasound is also applied to the detection of inside cracks in rollers and to the inspection of welded joints of a great length (by means of the УЗД НИИМ-3 (UZD NIIM-3) device). ✓

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M. M. P.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

BORISENKO, V.G.; NIFAGINA, A.A.

Physical and mechanical properties of limestones of the Vysokopol'ye and Belokrinit'skoye bauxite deposits. Sbor. nauch. trud. NIGRI no.7:77-79 '60. (MIRA 14:12)

1. Nauchno-issledovatel'skiy gornorudnyy institut (for Borisenko).
2. Mekhanobrchermet (for Nifagina).
(Dnepropetrovsk Province--Limestone)

TOKHTUYEV, G.V., gornyy inzh.; BORISENKO, V.G., gornyy inzh.;
MISHUROV, Ye.M., gornyy inzh.

New rock strength indicator and its manufacture in the mine.
Ugol' Ukr. 6 no.6:37 Je '62. (MIRA 15:7)
(Rocks-Testing)

TOKHTUYEV, Gleb Vasil'yevich, kand. geol.-miner. nauk; BORISENKO, Veniamin Grigor'yevich, inzh.; TITLYANOV, Anatoliy Andreyevich, inzh.; BIRZUL, A.M., inzh., retsenzent; SEMENENKO, M.D., inzh., red. izd-va; STARODUB, T.A., tekhn. red.

[Physicomechanical properties of rocks in the Krivoy Rog Basin]
Fiziko-mekhanicheskie svoistva gorn'nykh porod Krivbassa. Kiev,
Gostekhizdat USSR, 1962. 100 p. (MIRA 16:2)
(Krivoy Rog Basin--Rocks--Testing)

DNEPRENKO, K.V.; BORISENKO, V.G.

Bright decarburized annealing of electrical steel coils in
bell furnaces. Stal' 22 no.9:835-838 S '62. (MIRA 15:11)

1. Institut ispol'zovaniya gaza AN UkrSSR i zavod
"Zaporozhstal'".
(Steel--Heat treatment) (Furances, Heat-treating)

BORISENKO, V.G.; SEREBRENNIKOV, A.M.

Evaluation of the results of measuring the magnetic properties
in entire sheets of cold-rolled transformer steel. Zav. lab.
28 no.9:1089-1091 '62. (MIRA 16:6)

1. Zavod "Zaporozhstal".
(Steel—Magnetic properties)

BELEVTSSEV, Ya.N.; BEYGULENKO, I.L.; BETIN, D.I.; BORISENKO, V.G.;
GUBKINA, N.N.; DZHEDZALOV, A.T.; ZHILKINSKIY, S.I., prof.;
ZALATA, L.F.; KAZAK, V.M.; MALYUTIN, Ye.I.; MUROMTSEVA, Z.G.;
NATAROV, V.D., doktor geol.-miner. nauk; PANASENKO, V.N.;
PITADE, A.A.; RADUTSKAYA, P.D.; SLEKTOR, S.M.; SMIRNOV, D.I.;
TOKHTUYEV, G.V., kand. geol.-min. nauk; FOMENKO, V.Yu.;
SLENZAK, O.I., red.izd-va; MATVEYCHUK, A.A., tekhn. red.

[Methodological guide for the geological service for the
prospecting and mining of Krivoy Rog type deposits] Metodiche-
skoe rukovodstvo dlia razvedochnoi i rudnichnoi geologicheskoi
sluzhby mestorozhdenii krivorozhskogo tipa. Pod red. IA.N.
Belevtseva. Kiev, Izd-vo AN USSR, 1963. 395 p.

(MIRA 16:12)

1. Krivoy Rog. Gornorudnyy institut. 2. Chlen-korrespondent
AN Ukr.SSR (for Belevtsev).

(Krivoy Rog Basin--Engineering geology)

BORISENKO, V.G.; ZAYDMAN, I.D.; KOSHELEVSKIY, R.M.

Effect of conditions of cold rolling on the magnetic properties
of transformer steel. Stal' 23 no.1:65-67 Ja '63. (MIRA 16:2)

1. Zavod "Zaporozhstal".
(Rolling (Metalwork)) (Steel—Magnetic properties)

ZAYDMAN, I.D.; BORISENKO, V.G.

Simplified technology for the production of cold-rolled low-textured electrical steel. Stal' 23 no.1:76-79 Ja '63. (MIRA 16:2)

1. Zavod "Zaporozhstal'".
(Rolling (Metalwork)) (Steel—Metallography)

BORISENKO, V.G.; KOSHELEVSKIY, R.M.; VAYNSHTOK, M.I.

Refining transformer steel during heat treatment. Stal' 23 no.1:81-84
Ja '63. (MIRA 16:2)

1. Zavod "Zaporozhstal'".
(Annealing of metals)

(Steel--Metallography)

BARZIY, V.K., inzh.; BORISENKO, V.G., inzh.; VAYNSHTOK, M.I., inzh.; MOSHKEVICH, Ye.I., inzh.

Studying 11.3 ton ingots of transformer steel. Met. i gornorud. prom. no.3:57-61 My-Je '63. (MIRA 17:1)

1. Zavod "Zaporozhstal'" (for Barziy, Borisenko, Vaynshtok). 2. Zavod "Dneprospetsstal'" (for Moshkevich).

BORISENKO, V.G.

Production of large-size transformer sheets. Metallurg 8 no.11:
24-25 N '63. (MIRA 16:12)

BORISENKO, V.G.; BOZHKO, S.A.; GEPPA, S.A.; ZAYDMAN, I.D.; GAMAZOVA, L.B.

Reasons for the increased brittleness of strips of transformer
steel. Metallurg 10 no.8:25-27 Ag '64.

(MIRA 17:11)

1. Zavod "Zaporozhstal".

L 6403-66 EWT(m)/EWP(i)/T/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HW

ACC NR: AP5025684

SOURCE CODE: UR/0286/65/000/018/0032/0032

INVENTOR: Borisenko, V. G.; Bozhko, S. A.

ORG: none

TITLE: Method for preventing welding of steel sheets during heat treatment.
Class 18, No. 174651

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 32

TOPIC TAGS: steel sheet, sheet heat treatment

ABSTRACT: This Author Certificate introduces a method for preventing welding of steel sheets during heat treatment. Prior to heat treatment, the sheets are treated with liquid poly(ethylenesiloxane) or ethylenesilicate and cured at 300-400C in an oxidation atmosphere to obtain a protective layer on the sheet surface. [WW]

SUB CODE: MM/ SUBM DATE: 19Dec63/ ATD PRESS: 4170

Card 1/1

UDC: 621.785.02

UL'YANOV, N.A., doktor tekhn. nauk; AL'GIN, N.P., inzh.; BORISENKOV, V.A., inzh.

The D-538 bucket loader. Stroi. i dor. mash. 10 no.10:15-17 0 '65.
(MIRA 18:10)

ZAYLMAN, I.D.; BORISENEO, V.G.

Studies on the heating conditions of transformer steel ingots.
Metallurg 10 no.9:34-35 S '65. (MIRA 18:9)

1. Zavod "Zaporozhstal".

ZAYDMAN, I.D.; BORISENKO, V.G.

Plasticity of transformer steel in hot rolling. Stal' 25 no.8:
745-748 Ag '65. (MIRA 18:8)

1. Zavod "Zaporozhstal".

BORISENKO, V.G., inzh.; NEFEDOV, A.A., inzh.; ZAYDMAN, I.D., inzh.

Low-carbon steel for magnetic circuits of d.c. machines. Elektrotehnika
36 no.7:39-40 J1 '65. (MIRA 18:7)

BORISENKO, V.G., inzh.; ZAYDMAN, I.D., inzh.

Effect of the thickness of cold rolled transformer steel sheets
on specific energy losses. Elektrichestvo no.11:81-82 N '65.
(MIRA 18:11)

1. Zavod "Zaporozhstal'".

BORISENKO, V. I.

USSR/ Agriculture - Potato growing

Card 1/1 Pub. 123 - 15/17

Authors : Kargopolov, S. A., and Borisenko, V. I.

Title : Selecting a territory for growing potatoes in the Alma-Ata region

Periodical : Vest. AN Kaz. SSR 11, 104-106, Nov 1954

Abstract : The proper selection of a territory for growing potatoes is discussed.

Institution :

Submitted :

BORISENKO, V. I.

ML ✓ Increase of yield of Fortall millet by the method of pre-sowing seed treatment. V. I. Borisenko. *Vestnik Akad. Nauk Kazakh. S.S.R.* 12, No. 1, 80-3 (1958) (in Russian). — Pretreatment of the millet seeds with 1% Na_2CO_3 20 hrs. raised the seed crop by 17%; similar treatment with K_2CO_3 , H_3BO_3 , or 0.01% MnSO_4 gave subav. yields. Mn treatment was least harmful of the group. G. M. K.

L 16042-65 EWT(d)/EWT(m)/EWT(w)/EWA(d)/EWP(v)/EWP(k)/EWA(h) Pf-L/Feb ASD(f)-2
ACCESSION NR: AP5000108 EM/RM S/0198/64/010/006/0632/0639

AUTHOR: ~~Borisenko, V. I.~~ (Borisenko, V. I.) (Kiev)

TITLE: On buckling of a cylindrical shell under a longitudinal impact

SOURCE: Prykladna mekhanika, v. 10, no. 6, 1964, 632-639

TOPIC TAGS: elastic buckling, shell buckling, cylindrical shell buckling, axisymmetrical buckling, axial cylindrical shell impact, longitudinal hollow cylinder impact, impact loading

ABSTRACT: The buckling behavior of a cylindrical shell fixed at one end and subjected to an axisymmetric longitudinal impact on the free-end face by a rigid body moving at a certain speed is discussed in a linear geometric formulation. It is assumed that the shell does not have any initial shape irregularities, and the stresses do not exceed the elasticity limit. The axial displacements and force are determined from the known differential wave equation with initial and boundary conditions describing the membrane state of stress of the shell. V. V. Bolotin's "equations in variations" which describe the stress-

Cord 1/2

L 16042-65

ACCESSION NR: AP5000108

strain relations in the part of the shell adjacent to the impacted end are used for investigating shell buckling. These equations are reduced, by using Galerkin's method, to a system of ordinary differential equations whose solution by Lyapunov's second method is indicated. The rates and regions of propagation of longitudinal and lateral stress waves are briefly discussed. A sample analysis is presented of axisymmetrical buckling of a simply supported cylindrical shell under impact by a body having an infinitely large mass. Orig. art. has: 25 formulas.

ASSOCIATION: Instytut mekhaniky AN URSR (Institute of Mechanics, Academy of Sciences, UkrSSR)

SUBMITTED: 03Mar64

ENCL: 00

SUB CODE: AS

NO REF SOV: 006

OTHER: 001

ATD PRESS: 3142

Card 2/2

L 52163-65 EWT(m)/T/EWP(t)/EPA(bb)-2/EWP(b) Pad JD/HW/RM
 UR/0198/65/001/005/0100/0104

ACCESSION NR: AP5014827

AUTHOR: Borisenko, V. I. (Kiev)

TITLE: On the stability of a cylindrical shell under longitudinal impact

SOURCE: Prikladnaya mekhanika, v. 1, no. 5, 1965, 100-104

TOPIC TAGS: shell, cylindrical shell, shell stability, cylindrical shell stability, shell impact

ABSTRACT: The axisymmetric dynamic buckling of a hinged cantilever cylindrical shell under a longitudinal axisymmetric impact by a rigid body is investigated, using the refined wave equations (accounting for shear strains and inertia of rotation) derived from nonlinear equations of the theory of elasticity. In deriving these equations a method is applied which is analogous to that used by S. P. Timoshenko in impact analysis of a beam. The results of this investigation are compared with those obtained by means of the classical theory of shells. The equation of motion of the shell shortly after impact (when the shell undergoes only the longitudinal vibrations described by a wave equation for a beam) is accepted as the equation of unperturbed motion. To derive the equations of perturbed motion of the shell, the general equations of elasticity theory are used as the initial equations, then re-

Cord 1/2

L 52163-65

ACCESSION NR: AP5014827

written in cylindrical coordinates for the case of axisymmetric deformation, from which, after transformation and reduction of the three-dimensional problem to the plane problem, a system of three second-order differential equations in nondimensional form is obtained which describes the perturbed motion of the shell. Thus, the whole problem is reduced to investigating the stability of these equations under certain initial and boundary conditions. The system is solved for a particular case when the mass of the impacting body is large as compared with that of the shell. The stability of this solution is discussed by comparing (in a diagram) the stability condition based on the Hurwitz theorem with that obtained from classical equations of shell theory. The estimation of the stability of the shell under the impact of a body of finite mass is outlined. Orig. art. has: 1 figure and 13 formulas. [VK]

ASSOCIATION: Institut mekhaniki AN UkrSSR (Institute of Mechanics, AN UkrSSR)

SUBMITTED: 09Sep64

ENCL: 00

SUB CODE: "AS, ME

NO REF SOV: 006

OTHER: 002

ATD PRESS: 4018

Card 2/2

L 55030-65 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m) WW/EM
ACCESSION NR: AP5022215 UR/0198/65/001/008/0057/0062

AUTHOR: Borisenko, V. I. (Kiev)

TITLE: Effect of boundary conditions on the stability of a cylindrical shell under longitudinal impact

SOURCE: Prikladnaya mekhanika, v. 1, no. 8, 1965, 57-62

TOPIC TAGS: cylindrical shell, longitudinal shell impact, shell buckling, shell stability, shell impact buckling, shell dynamic stability

ABSTRACT: The dynamic-stability problem of a cylindrical shell fixed at one end and subjected to longitudinal impact by a rigid body at the other end is analyzed. The body moves at a given velocity in the axial direction of the shell; its mass is much larger than that of the shell. The shell buckles in the portion of the shell (called critical length) adjacent to the impacted end after the longitudinal compression wave propagates in this portion, leaving the rest of the length of the shell in a relatively unperturbed state. The perturbed state is understood to mean shell vibrations in which small transverse perturbations induce transverse vibrations with increasing amplitude; the appearance of such vibrations is called buckling (loss of stability). The effect of stiffening of the impacted end on the magnitude of the

Card 1/3

L 65030-65

ACCESSION NR: AP5022215

26
buckling (critical) impact load, which depends on the mass and velocity of the impacting body, is analyzed, using the previously derived (by the author) equations of the perturbed motion of the shell. The boundary conditions on the impacted end and the conditions of the kinematic and dynamic compatibility between perturbed and unperturbed portions of the shell are discussed and established. After substitution of displacement components in the form of trigonometric series containing unknown time functions and functions satisfying the boundary and compatibility conditions into the initial equations with subsequent integration by the Galerkin method, a system of regular differential equations in terms of the time functions is obtained. By analyzing the roots of the characteristic equation of this system, the stability conditions of its solution are established from which an expression (in the form of an inequality) is obtained for determining the buckling (critical) impact load in terms of coefficients of the above system of equations. Four numerical calculations were performed for cylindrical shells with the following boundary conditions at the impacted end: hinged support, rigid clamping, free end, and hinged support with all the boundary and compatibility conditions taken into account. The relation between the critical load and nondimensional critical length l_{cr}/R (R is the radius of the middle surface of the shell) is shown in a diagram. The results obtained and the

Card 2/3

L 65030-65

ACCESSION NR: AP5022215

quantitative and qualitative aspects of the behavior of the shell under impact are discussed. Orig. art. has: 1 figure and 16 formulas. [VK]

ASSOCIATION: Institut mekhaniki AN UkrSSR (Institute of Mechanics, AN UkrSSR)

SUBMITTED: 20Dec64

ENCL: 00

SUB CODE: AS

NO REF SOV: 006

OTHER: 001

ATD PRESS: 4082

Card 3/3 *McL*

L 45768-66 EWP(k)/EWT(d)/EWT(m)/T/EWP(w)/EWP(v)/EWP(t) IJP(c) EM/WW/JD

ACC NR: AP6026297

SOURCE CODE: UR/ 0021/66/000/007/0875/0878

AUTHOR: Borysenko, V. I. -- Borisenko, V. I.

ORG: Institute of Mechanics, AN URSR (Instytut mekhaniky AN URSR)

TITLE: Method for studying the stability of a cylindrical shell under longitudinal impact

SOURCE: AN UkrRSR. Dopovidi, no. 7, 1966, 875-878

TOPIC TAGS: shell theory, shell deformation, cylindric shell structure, motion equation, compression shock wave, ordinary differential equation, *SHELL STRUCTURE STABILITY, IMPACT STRESS*

ABSTRACT: The author presents a method for studying the stability of a cylindrical shell under longitudinal impact. The basic differential equations of motion for the internal surface of a shell subjected to a longitudinal impact load at the edge are taken from the literature. It is assumed that the shell does not lose stability along its entire length but only at the point where the longitudinal compression wave is propagated. A variational expression is given which describes the vibrations of this region of the shell. It is assumed that these variations deviate from zero only where the longitudinal compression wave is propagated. The contact area between this disturbed section and the nondisturbed sections of the shell is considered. The author uses the Galerkin method for reducing the variational expression to a

Card 1/2

L 45700-00

ACC NR: AP6026297

system of ordinary differential equations. The Kamenkov method is used for studying the roots of the expression describing the action of longitudinal loading for a limited time interval. The article was presented for publication by Academician AN UkrSSR H. M. Savin. Orig. art. has: 1 figure, 10 formulas.

SUB CODE: 20/ SUBM DATE: 14Jul65/ ORIG REF: 007

ms
Card 2/2

L 07443-67 EWP(k)/EWT(d)/EWT(m)/EWP(w)/EWP(v) IJP(c) EM/WW
 ACC NR: AP6035492 (N) SOURCE CODE: UR/0198/66/002/010/0029/0035

AUTHOR: Borisenko, V. I. (Kiev); Klokova, A. I. (Kiev) 35
B

ORG: Institute of Mechanics, AN UkrSSR (Institut mekhaniki AN UkrSSR)

TITLE: Postcritical deformation of a cylindrical shell under impact 26

SOURCE: Prikladnaya mekhanika, v. 2, no. 10, 1966, 29-35

TOPIC TAGS: cylindric shell, shell deformation, shell impact, elastic deformation, elastic impact deformation

ABSTRACT: The axisymmetrical elastic deformation of a circular cylindrical shell under longitudinal impact is investigated by using a system of nonlinear equations with the propagation of elastic stress waves taken into account, and without any assumptions concerning the mode of buckling. One end of the shell is fixed, the other end is axially impacted by a rigid solid moving at a velocity V ; the ratio m of the mass of the body to the mass of the shell is given. The analysis of the impact-deformation process in this shell is reduced to solving this nonlinear system with initial and boundary conditions by the method of finite differences, utilizing an explicit scheme whose convergence and stability was checked. The behavior of the shell was studied in

Card 1/2

L 07443-67

ACC NR: AP6035492

the time interval in which the longitudinal compression wave propagates along the whole length of the shell, and the first reflected wave comes back. The results from calculating the normal displacements along the shell at various instants of both waves propagating, for the ratio $m = 3.64$ and nondimensional velocities $V/a = 0.0005; 0.001; 0.002; \text{ and } 0.004$ (where a is the velocity of sound) are shown in diagrams and are examined. The qualitative aspect of the shell deformation, especially the formation of maximum local displacements during the passage of both the compression and the reflected waves as related to V is discussed and found to be in agreement with the A. Koppa phenomenological theory based on experimental results. Orig. art. has: 5 figures and 13 formulas.

SUB CODE: 20/ SUBM DATE: 29Dec65/ ORIG REF: 006/ OTH REF: 002
ATD PRESS: 5104

Card 2/2

KUCHEMANN, D.; WEBER, J.; BORISENKO, V.M. [translator]; YELISEYEVA, Yu.B.
[translator]; SORKINA, L.I. [translator]; EL'PERINA, I.S. [translator];
MEL'NIKOV, D.A., redaktor; DANILOV, I.Ya., redaktor; KLIMENKO, S.V.,
tekhnicheskii redaktor

[Aerodynamics of propulsion. Translated from the English] Aerodinamika
aviatsionnykh dvigatelei. Perevod s angliiskogo V.M.Borisenko i dr.
Pod red. D.A.Mel'nikova. Moskva, Izd-vo inostrannoi lit-ry, 1956.
388 p. (MLRA 10:2)

(Aerodynamics) (Airplanes--Motors)

BORISENKO, V.P.

BORISENKO, V.P. What is a mine? Izd. 3. ispr. i dop. Moskva, Gos.
nauch.-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry; 1941. 62 p. (48-32686)

TN801.B6 1941

GORELIK, M.M., inzh.; BORISENKO, V.S., inzh.

Automatic line for mechanical processing of skis. Der. prom.
11 no.7:13-14 J1 '62. (MIRA 17:1)

GORELIK, M.M.; BORISENKO, V.S.

The ShOS openside tenon-cutting machine with conveyor feeder.
Der. prom. 12 no.9:13-15 S '63. (MIRA 16:10)

1. Moskovskiy zavod derevoobrabatyvayushchikh stankov.

MAYATIN, A.A.; KRUTOUS, M.D.; GITARSKIY, V.S.; BORISENKO, V.S.; GORELIK, M.M.;
VINOGRADOV, N.P.; KAUFMAN, D.I.; SLAVIN, I.S.; OSIYASHVILI, M.N.;
KIRPENEV, N.K.; FOZENBERGER, N.A.; NAPKHANENKO, Z.S.; KIPUS, L.A.;
ZAYCHENKO, I.V.

Innovations. Bum. i der. prom. no.3:58-59 J1-S '64.

(MIRA 17:11)

GORELIK, M.M.; BORISENKO, V.S.

Modernization of the Sho6 tenon-cutting machine. Der. prom.
13 no.9:22-23 S '64. (MIRA 17:11)

SHOSTAKOVSKIY, M.F.; KOTRELEV, V.N.; KOCHKIN, D.A.; KUZNETSOVA, G.I.;
KALININA, S.P.; BORISENKO, V.V.

Synthesis and various conversions of tin and silicon organic compounds.
Zhur. prikl. khim. 31 no.9:1434-1436 S '58. (MIRA 11:10)

1. Institut organicheskoy khimii AN SSSR i Gosudarstvennyy nauchno-
issledovatel'skiy i proyektnyy institut promyshlennosti plasticheskikh
mass.

(Tin organic compounds) (Silicon organic compounds)

KOCHKIN, D.A.; KOTRELEV, V.N.; KALININA, S.P.; KUZNETSOVA, G.I.; LAYNE,
L.V.; CHERVOVA, L.V.; BORISOVA, A.I.; BORISENKO, V.V.

Organotin monomers and polymers. Vysokom.soed. 1 no.10:
1507-1513 0 '59. (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut plasticheskikh mass.
(Tin organic compounds) (Polymers)

BORIS ENKO, V.Ya.
VAKHRUSHEV, V.A.; BORISENKO, V.Ya.

Characteristic type of skarn wall rock at Shalym and its prospecting significance. Razved.i okh.nedr 22 no.12:9:11 D '56. (MLRA 10:2)

1. Zapadno-Sibirskiy filial AN SSSR (for Vakhrushev).
 2. Gorno-geologicheskii institut (for Borisenko).
- (Shalym--Ore deposits)

BORISENKO, Ya.Ye., inzh.

Foundation for forging hammers with spring dampers. Vest. mash. 38
no.3:40-41 Mr '58. (MIRA 11:2)

(Forging--Shock absorbers)

BORISENKO, Ye. I., Cand Tech Sci -- (diss) "Study and experimental and theoretical substantiation of the technology of ~~manure removal mechanization~~ mechanization of manure removal of animal husbandry premises from ~~livestock barns~~." Minsk, 1958. 8 pp (Acad Sci Belorussian SSR, Department of Phys-Math and Tech Sci), 150 copies (KL, 35-58, 107)

-30-

BORISENKO, Ye.M.

New data on the distribution of sandy facies in the Khadum horizon of central Ciscaucasia. Geol.nefti i gaza 3 no.11: 44-46 N '59. (MIRA 13:3)

1. Stavropol'skiy filial Groznenskogo nauchno-issledovatel'skogo neftyanogo instituta.
(Caucasus, Northern--Sand)

BORISENKO, Ye.M.

Miocene sediments are an important source for an increase of gas reserves in Stavropol Territory. Gaz. prom. 6 no. 1:4-7 '61.

(MIRA 14:1)

(Stavropol Territory—Gas, Natural—Geology)

BORISENKO, Ye.M.

Miocene tectonics of central Ciscaucasia. Geol. nefiti i gaza
6 no.1:35-37 Ja '62. (MIRA 15:1)

1. Stavropol'skiy filial Groznenskogo nauchno-issledovatel'skogo neftyanogo instituta.
(Caucasus, Northern--Geology, Structural)

VASIL'YEV, V.G.; MERZLENKO, Yu.F.; MATSKEVICH, M.M.; ZHIVAGO, N.V.;
LI CHZHAO-ZHEN' [Li Chao-Jên]; GOLYAKOV, V.A.; SHABATIN, I.V.;
BORISENKO, Ye.M.; MIROSHNIKOV, M.V.; USPENSKAYA, N.Yu.;
KHEL'KVIST, V.G.; GRATSIAKOVA, O.P.; BUDNIKOV, N.B.; BELOV, K.A.;
MAKSIMOV, S.P.

Discussion. Trudy VNIGNI no.32:282-336 '60.

(MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza (for Vasil'yev, Zhivago, Khel'kvist).
2. Neftepromyslovoye upravleniye Stavropol'neft' (for Merzlenko).
3. Groznenskiy nauchnoissledovatel'skiy neftyanoy institut (for Matskevich).
4. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina (for Li Chzhao-zhon', Uspenskaya).
5. Stavropol'skiy filial Groznenskogo nauchnoissledovatel'skogo neftyanogo instituta (for Golyakov, Shabatin, Borisenko, Miroshnikov).
6. Ministerstvo geologii i okhrany neдр SSSR (for Gratsianova, Budnikov).
7. Glavnyy geolog neftyanogo i gazovogo upravleniya Stavropol'skogo sovnarkhoza (for Belov).

(Caucasus, Northern--Petroleum geology)
(Caucasus, Northern--Gas, Natural--Geology)

BORISENKO, Ye.M.; PYLENKOV, B.N.; YUDIN, G.T.

Importance of the correlation of structural plans for
prospecting methods used in the Kuma oil-bearing area.
Neftegaz. geol. i geofiz. no.3:7-10 '65. (MIRA 18:7)

1. Stavropol'skiy filial Groznenskogo neftyanogo nauchno-is-
sledovatel'skogo instituta i Moskovskiy ordena Trudovogo Krasnogo
Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im.
akad. Gubkina.

BORISENKO, Ye.M.; KAPUSTINA, I.N.

Structural-facies conditions governing the distribution of
oil and gas in the Paleogene sediments of Stavropol Territory.
Neftegaz. geol. i geofiz. no.7:24-29 '63.

(MIRA 17:10)

1. Stavropol'skiy filial Groznenskogo neftyanogo nauchno-
issledovatel'skogo instituta.

PEREL'MAN, A.I.; BORISENKO, Ye.N.

Outlines of the copper geochemistry in the supergene zone.
Part 1: Characteristics of copper atom determining the migration
in the supergene zone. Trudy IGEM no.70:30-99 '62. (MIRA 15:9)
(Copper) (Geochemistry)

BORISENKO, Ye.M.—BORISENKO, L.F.

Volchonskoite from red beds in the Kama Valley. Trudy Min.muz.
no.13:153-160 '62. (MIRA 16:2)
(Kama Valley—Volchonskoite)

L 55987-65

EWI(1)/EWG(v) Pa-5/Pae-2 GW

ACCESSION NR: AP5015671

UR/0293/65/003/003/0433/0443
551.521.32:629.195.2

AUTHOR: Borisenkov, Ye. P.; Doronin, Yu. P.; Kondrat'yev, K. Ya. 32 B

TITLE: Structural characteristics of fields of outgoing radiation according to data of the artificial satellites Tiros II and Tiros III and their interpretation

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 3, 1965, 433-443

TOPIC TAGS: radiation field, structural function, satellite, shortwave radiation, correlation function, upwelling radiation

ABSTRACT: The structure of the radiation field leaving the earth's atmosphere was studied on the basis of radiation data catalogs of the satellites Tiros II and Tiros III, which characterize the winter and summer radiation fields. A special coefficient was introduced for comparing the radiation measured by the two satellites. Structural functions of integral radiation obtained from measurements made by the two satellites differ from one another, and the difference increases with distance. The shortwave radiation measured by these satellites depended upon the reflectivity of the clouds and ground of the regions over which they flew. Structural functions of radiation fields obtained from satellite measurements also differ. It is more

Card 1/2

L 53987-65

ACCESSION NR: AP5015671

convenient to use correlation functions and compute the spectral density since it is independent of the filter transmission. The analysis of data obtained by Tiros III led to the conclusion that the radiation field is isotropic in a space extending 1000—2000 km. Reliable results about upwelling radiation may be obtained by performing measurements at points close to each other. Orig. art. has: 2 tables, 2 figures, and 11 formulas. [EG]

ASSOCIATION: none

SUBMITTED: 24Mar64

ENCL: 00

SUB CODE: AA

NO REF SOV: 004

OTHER: 008

ATD PRESS: 4021

Card 2/2

BORISENKO, Ye.P.

Diagnosis and prognosis of location and intensity of jet stream.
Meteor. 1 gidrol. no.8:21-27 Ag '57. (MIRA 10:8)
(Jet stream)

BORISENKOV, Ye. P.; DORONIN, Yu. P.; KONDRATYEV, A. Ia.;

"Structural characteristics of the radiative field of the Earth as a Planet." (USSR)

Report submitted for the COSPAR Fifth International Space Science Symposium, Florence, Italy, 8-20 May 1964.

L 17162-63

EWI(1)/FCC(w)/FS(v)-2/BDS/ES(v)

AFMTC/AFMDC/ESD-3

Pe-4/P1-4/Po-4/Pq-4 TT/GW

ACCESSION NR: AP3007339

S/0293/63/001/001/0113/0125

78

AUTHOR: Borisenkov, Ye. P.; Doronin, Yu. P.; Kondrat'yev, K. Ya.

TITLE: Structural characteristics of the earth's radiation field as a planet

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 113-125

TOPIC TAGS: Tiros II, outgoing radiation, radiation field, weather satellite, isotropy, atmospheric absorption band, atmospheric window, terrestrial thermal radiation

ABSTRACT: A statistical investigation has been made with the Ural-2 computer of the fields of outgoing radiation (earth's surface to atmospheric system) based on data obtained on channels 1, 2, and 4 of Tiros II and later presented in the Tiros II Radiation Data Catalogue (1961). The mean and most probable values of the structural and correlation functions for each of the 52 orbits are presented. The isotropy of these functions was found to be

Card 1/2

L 17162-63

ACCESSION NR: AP3007339

best achieved for integral radiation and most poorly for radiation in the absorption band of water vapor. The change in structural functions is seen to occur rapidly at the onset and then ceases to grow for all practical purposes. Correlations are made between the structural characteristics of the fields of integral outgoing radiation and outgoing radiation in the "atmospheric window" (8 to 12 μ), and between the radiation fields and the meteorological parameters of the atmosphere. Orig. art. has: 6 figures and 24 formulas.

ASSOCIATION: none

SUBMITTED: 20Feb63

DATE ACQ: 21Oct63

ENCL: 00

SUB CODE: AS

NO REF SOV: 004

OTHER: 006

Card 2/2

BORISENKOV, Ye. P., DORONIN, Y. P., and KONDRATIEV, K. Y. (Acad. Sci. USSR)

"Structural Characteristics of the Radiative Field of the Earth as a Planet"

Report presented at the COSPAR, 5th Intl Space Science Symposium, Florence,
Italy, 8-20 May 1964

BORISENKOV, Ye.P.

Interaction of geophysical processes in the northern and southern
hemispheres in the problem of general atmospheric circulation. Probl.
Arkt. i Antark. no.20:11-22 '65. (MIRA 18:10)

BORISENKOV, Ye.P.

Energy conversion in the atmosphere of the northern and southern
hemispheres and the interaction of processes in both hemispheres.
Meteor. issl. no.9:5-13 '65. (MIRA 19:1)

BORISENKOV, Ye.P.; BORISOVA, L.Ye.

Numerical forecast of mean monthly anomalies of air temperature
by the statistical method. Trudy AANII 262:185-192 '65.

(MIRA 19:1)

BORISENKOV, Ye.P.

Some ways of making the physicostatistical prognostic schemes
more exact, based on the example of numerical forecasts of
the pressure field in the Arctic. Trudy AANII 262:201-209 '65.
(MIRA 19:1)

BORISENKO, E. Ya.

"Genetic analysis of heterosis (hybrid vigour)," (p. 231) by E. Ya. Borisenko.

SO: Journal of General Biology (Zhurnal Obschei Biologii) Volume II No. 2, 1941.

1. BORISENKO, YE.YA.
2. USSR (600)
4. Agriculture
7. Principles of breeding farm animals. Moskva, Sel'khozgoz, 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

Borisenko, Ye. A.
POLYAKOV, I.A.

A valuable book ("Breeding farm animals." E. A. Borisenko. Reviewed by
I.A. Poliakov.) Zhur.ob.biol. 14 no.3:251-256 My-Je '53. (MLBA 6:6)
(Stock and stock breeding) (Borisen'ko, E.A.)

BORISENKO, Ye.Ya., doktor sel'skokhozyaystvennykh nauk, professor.

Essential problems in the pure breeding of farm animals. Izv.TSKhA
no.3:163-174 '56. (MLRA 10:3)
(Stock and stockbreeding)

BORISENKO, Yefim Yakovlevich, professor; GRIGOR'YEV, Ye.P., redaktor;
BALLOD, A.I., tekhnicheskij redaktor

[Breeding farm animals] Razvedenie sel'skokhoziaistvennykh zhivotnykh.
Izd. 2-oe, perer. i sokr. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957.
439 p. (MLRA 10:9)

(Stock and stockbreeding)

BORISENKO, Ye. Ya.

Q-3

USSR/Farm Animals - Cattle.

Abs Jour : Ref Zhur - Biol., No 1, 1958, 2568

Author : Ye. Ya. Borisenko

Inst : -

Title : The Influence of Food on the Morphological and Physiological Characteristics of Cattle.

Orig Pub : Vestn. s-kh. nauki, 1957; No 3, 63-70 (Res. Eng. and Germ)

Abstract : Two groups of heifers (the first group included 5 heads of the Red Tambovskaya and 7 heads of the Simental'skaya breed; the second group consisted of 5 heads of each respective breed), were raised on rations which were similar in nutrition value but different in composition. The animals in the first group received during the first year of their life: 850 kilograms of roughage, 2,300 kilograms of juicy fodder, and 550 kilograms of concentrates. The animals of the second group received accordingly: 545 kilograms, 580 kilograms and 855 kilograms. After the first calving

Card 1/2

USSR/Farm Animals - Cattle.

Q-3

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206320012-5"

all animals were placed on regular rations. The animals of the first group grew faster in length, depth and size. The blood indicators (erythrocytes and hemoglobin) of these animals as well as their metabolism and milk production were higher than in animals of the second group. It is recommended that the adult as well as the young stock of dairy farms be supplied with rations containing a larger amount of roughage and juicy fodder.

Card 2/2

Country : USSR
 Category : Farm Animals.
 General Problems.
 Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96908
 Author : Borisenko, Ye. Ya.
 Institut. : Timiryazev Agricultural Academy.
 Title : The Achievements of Soviet Science in the Breeding of Farm Animals.
 Orig Pub. : Izv. Timiryazevsk. s.-kh. akad., 1957, No 6, 147-160.
 Abstract : The tremendous successes attained by zootechnology in elaborating the theory and praxis of breeding farm animals and the great achievements in increasing the productivity of socialist animal husbandry are discussed. A network of scientific-research institutes, experiment stations and laboratories has developed. A great deal of work was performed in studying local breeds and bantlings, and the basic foci in the origin of domestic animals. The impor-

Card: 1/3

Country : USSR
 Category : Farm Animals.
 General Problems.
 Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96808
 Author :
 Institut. :
 Title :

Orig Pub. :

Abstract : tance of state breeding records, of animal breeding sovkhozes, of distribution centers, and of kolkhoz farms has increased. The theory of breeds, their perfection, linear breeding, methods of originating new breeds was developed. The constitution of farm animals, the histological structure of organs and tissues, the hematological indicators of various breeds and age groups, growth and development and the various factors affecting them were studied. A great deal of effort was devoted to studying

Card: 2/3

Country : USSR
 Category : Farm Animals.
 General Problems.
 Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96908
 Author :
 Institut. :
 Title :

Orig Pub. :

Abstract : and increasing vitality, fertility and productivity of farm animals. Effective breeding methods were developed and perfected. A complex evaluation of pedigreed animals and an evaluation based on progeny were applied, as well as correct matching under proper feeding and keeping conditions. Many new breeds of various species were raised. The methods of research work were perfected and were made more exact.

Card: 3/3

CATEGORY : Farm Animals. General Problems
ABS. JOUR. : RZBiol., No.13, 1958, No.59453
AUTHOR : Borisenko, Ye. Ya
INST. : -
TITLE : Achievements of Soviet Science in Breeding
Farm Animals

ORIG. PUB. : Molochn. i myasnoye zhivotnovodstvo, 1957,
No 11, 10-20
ABSTRACT : An outline of achievements and development of
the theory and practice of the breeding of
farm animals in the Soviet Union is given.
The organization of a vast network of zoo-
technical scientific research institutes,
experiment stations, and laboratories pro-
vided favorable conditions for the develop-
ment of animal husbandry. State breeding
centers and plemkhozes [breeding farms] were
organized and herd books were established.

CARD: 1/3

CATEGORY : Farm Animals. General Problems

ABS. JOUR. : RZBiol., No. 13, 1958, No. 59453

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : Expeditionary complex investigations of the
cont'd. animal husbandry of vast areas were carried
out. The conformation and constitutional characteristics of basic species and breeds of animals, their growth and development under the influence of various conditions, problems of the increase of productiveness, and fertility of the animals were studied. Methods of development and improvement of the breeds

CARD: 2/3

Q - 1

CATEGORY : Farm Animals. General Problems

ABST. JOUR. : RZBiol., No.13, 1958, No.59453

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : were worked out. A great number of high-pro-
cont'd. ducing new breeds of cattle, sheep, swine
and horses was developed.

CARD: 3/3

BORISENKO, Ye.Ya., prof.

Immediate tasks in breeding farm animals. Dokl. TSKhA no.27:188-
194 '57. (MIRA 11:4)

(Stock and stokbreeding)

USSR / Farm Animals. General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7246

Author : Borisenko, Ye. Ya.

Inst : Timiryazev Academy of Agriculture

Title : The Methods of Breeding Farm Animals and
Their Place in the Work of Breeding Pedigreed

Orig Pub : Izv. Timiryazevsk. s.-kh. akad., 1958,
No 1, 169-174

Abstract : The article deals with the elements of the
work of breeding, with basic methods of breeding (inbred or purebred, crossed and hybridized) and with their evaluation. Data are given which were obtained during a number of years at USSR kolkhozes and in foreign countries on the increase of live weight, milk

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USSR / Farm Animals. General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7246

production and the milk's fat content in
raising of purebred stock. Measures are
recommended utilizing various methods of
breeding. -- M. F. Demina

Card 2/2

USSR / Farm Animals. General Problems. Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7247

Author : Borisenko, Ye. Ya.

Inst : Not given

Title : The Importance of Inbreeding and Crossbreeding for the Improvement of Farm Animals

Orig Pub : Vestn. s.-kh. nauki, 1958, No 4, 72-76

Abstract : The author is of the opinion that inbreeding represents the basic method in breeding of farm animals. As the conditions of feeding, caring and keeping are improved, as the breed is separated by groups according to leading lines and as selection and choice are widely utilized, it is possible to improve and to perfect the breed in a needed direction by

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USSR / Farm Animals. General Problems.

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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7247

means of inbreeding. The effectiveness of this method is illustrated by practical examples. Crossing may become a means for rapidly improving already existing breeds (absorbed and introduced crossing), and for creating mixed herds with increased productivity (interbreed and variable crossing). The unreasonableness of becoming too much involved with crossing is stressed as it occurred in the case of one Kherson oblast' where the Red Steppe breed is crossed with 5 other breeds with the main objective of raising the milk's fat content. It is pointed out that the success of crossing presumes the existence of attested herds of purebred animals and there-

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General Problems.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7247

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fore necessitates the strict introduction of inbreeding. -- K. M. Lyutikova

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Card 3/3

BORISENKO, Ye.Ia., prof., doktor sel'skokhozyaystvennykh nauk

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(MIRA 11:11)

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BORISENKO, Ye.Ya., doktor sel'skokhozyaystvennykh nauk, prof.; GUR'YANOVA, A.S.,
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Minute volume of heart and correlation of organs in cattle depending
on the type of feeding. Izv. TSKhA no.6:158-163 '60. (MIRA 13:12)
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BORISENKO, Yefim Yakovlevich, doktor sel'skokhoz. nauk; GLAZUNOVA, N.I.,
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